CLAIMS

We claim:

- 1 1. A method for increasing the potency of an amide-linked or ester-linked local anesthetic in a patient comprising the step of,
- administering at least one methanesulfonamide compound with an amide-linked or ester-linked local anesthetic or combination thereof.

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- 1 2. The method of claim 1 wherein said amide-linked local anesthetic is selected from the
- 2 group consisting of dibucaine, articaine, levobupivacaine, ropivacaine, todocaine, lidocaine,
- 3 prilocaine, mepivacaine, bupivacaine, and etidocaine.
- 1 3. The method of claim 1 wherein said ester-linked local anesthetic is selected from the
- 2 group consisting of procaine, chloroprocaine, benzocaine, butamben, picrate, cocaine, and
- 3 tetracaine.

- 4. The method of claim 1 further comprising the step of administering a vasoconstrictive
 substance to said patient.
 - 5. The method of claim 4 wherein said vasoconstrictive substance is selected from the group consisting of epinephrine and levonordefrin.
- 1 6. The method of claim 1 wherein said at least one methanesulfonamide compound is
- 2 selected from the group consisting of ibutilide, sotalol, E4031, dofetilide and sematilide.
- 1 /7. A method of providing local anesthesia to a patient in need thereof, comprising the step of
- administering to said patient at least one amide-linked or ester-linked local anesthetic
- 3 together with at least one methanesulfonamide compound.
- 1 8. The method of claim 7 wherein said at least one amide-linked local anesthetic is selected
- 2 from the group consisting of dibucaine, articaine, levobupivacaine, ropivacaine, todocaine,
- 3 lidocaine, prilocaine, mepivacaine, bupivacaine, and etidocaine.

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- 1 9. The method of claim 7 wherein said at least one ester-linked local anesthetic is selected
- 2 from the group consisting of procaine, chloroprocaine, benzocaine, butamben, picrate,
- 3 cocaine, and tetracaine.
- 1 10. The method of claim 7 further comprising the step of administering a vasoconstrictive
- 2 substance to said patient.
- 1 11. The method of claim 10 wherein said vasoconstrictive substance is selected from the
- 2 group consisting of epinephrine and levonordefrin.
- 1 12. The method of claim 7 wherein said at least one methanesulfonamide compound is
- 2 selected from the group consisting of ibutilide, solatol, E4031, dofetilide and sematilide.
- 1 13. A pharmaceutical composition comprising,
 - at least one amide-linked or ester-linked local anesthetic, and
 - at least one methanesulfonamide compound.
 - 14. The pharmaceutical composition of claim13 further comprising a vasoconstrictive substance.
- 15. The method of claim 14) wherein said vasoconstrictive substance is selected from the
- 2 group consisting of epinephrine and levonordefrin.
- 1 16. The pharmaceutical composition of claim 13 wherein said at least one amide-linked local
- 2 anesthetic is selected from the group consisting of dibucaine, articaine, levobupivacaine,
- 3 ropivacaine, todocaine, lidocaine, prilocaine, mepivacaine, bupivacaine, and etidocaine.
- 1 17. The pharmaceutical composition of claim 13 wherein said at least one ester-linked local
- 2 anesthetic is selected from the group consisting of procaine, chloroprocaine, benzocaine,
- 3 butamben, picrate, cocaine, and tetracaine.

- 1 18. The pharmaceutical composition of claim 13 wherein said at least one
- 2 methanesulfonamide compound is selected from the group consisting of ibutilide, solatol,
- 3 E4031, dofetilide and sematilide.